

## Nordigi BLE sensor module/datalogger



### 1. General

The Nordigi sensor module/datalogger is a versatile product which can act as an endpoint in a Nordigi IoT network or as a stand-alone unit for logging with an app direct connected.

The datalogger consists mainly of a Bluetooth Low Energy (BLE) controller with RF and sensors.

Sensors:

- Temperature
- Humidity
- Ambient light
- 3-axis accelerometer
- Water detector

### 2. Specification

#### Power

The unit is powered by a single CR2032 coin cell battery. The battery lifetime is dependent of use. Typical 1-5 years.

#### Radio

Bluetooth Low Energy (BLE) stack with BT 4.2 support

#### Mechanical:

Enclosure size: 40x40x11mm

Board size: 30x30mm

#### Environment:

Temperature operating: -40 to 75 C

#### Sensors

- Temperature sensor, measuring scale: -35 to 75 C +/-0,3
- Humidity sensor, measuring scale: 0-100% RH +/-2%
- 3 axis accelerometers: max +/- 8g range on all axis
- Ambient light-sensor

All sensors have an interrupt output to trig an event based on pre-set thresholds in the sensor.

### 3. CE compliance

The Nordigi Datalogger is tested and approved according to:

- IEC 62368-1: 2018  
Audio/video, information and communication technology equipment - Part 1: Safety requirements
- EN 300 328  
Wideband transmission systems; Data transmission equipment operating  
In the 2,4 GHz band; Harmonized Standard for access to radio spectrum
- EN 301 489-1 V2.1.1 (2019-04)  
EMC standard for radio equipment and services; Part 1: Common technical requirements
- EN 301 489-17 V3.1.1 (2017-02)  
EMC standard for radio equipment and services;  
Part 17: Specific conditions for Broadband Data Transmission Systems
- EN 60601-1-2: 2015  
Medical electrical equipment - Part 1-2: General requirements for  
basic safety and essential performance - Collateral Standard:  
Electromagnetic disturbances - Requirements and tests